

**RECEIVED  
CENTRAL FAX CENTER**

10/676,923

MAR 07 2006

H1567

**CERTIFICATE OF FACSIMILE TRANSMISSION**

I hereby certify that this paper (along with any paper referred to as being attached, enclosed, or following) is being facsimile transmitted to the Patent and Trademark Office (571-273-8300) on the date shown below.

Date: March 7, 2006

  
Jonathan A. Platt

Attorney Docket No. H1567

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:

Applicants: Bruno M. LaFontaine et al.

Serial No.: 10/676,923

Filed: October 1, 2003

Title: PHASE-SHIFT REFLECTIVE MASK FOR LITHOGRAPHY, AND  
METHOD OF USING AND FABRICATING

Examiner: Stephen D. Rosasco

Art Unit: 1756

**SUBMISSION OF DECLARATION**

Commissioner for Patents  
P.O. Box 1450  
Arlington, VA 22313-1450

Dear Sir:

Following herewith is a Rule 37 C.F.R. § 1.131 Declaration submitted with regard to the above application. The Declaration has a total of seven (7) pages, including five (5) pages of attachments.

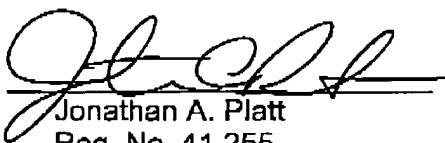
- 1 -

10/676,923

H1567

No fee is believed to be due with the filing of this paper. In the event any fees are due in connection with the filing of this paper, the Commissioner is authorized to charge those fees to Deposit Account No. 18-0988 (Charge No. AMDSPH1567US).

Respectfully submitted,  
RENNER, OTTO, BOISSELLE & SKLAR, LLP

By   
Jonathan A. Platt  
Reg. No. 41,255

1621 Euclid Avenue  
Nineteenth Floor  
Cleveland, Ohio 44115  
(216) 621-1113  
(216) 621-6165 (fax)

**RECEIVED  
CENTRAL FAX CENTER**

**MAR 07 2006**

Attorney Docket No. H1567

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:

Applicants: Bruno M. LaFontaine et al.

Serial No.: 10/676,923

Filed: October 1, 2003

Title: PHASE-SHIFT REFLECTIVE MASK FOR LITHOGRAPHY, AND  
METHOD OF USING AND FABRICATING

Examiner: Stephen D. Rosasco

Art Unit: 1756

**RULE 37 C.F.R. § 1.131 DECLARATION**

Commissioner for Patents  
P.O. Box 1450  
Arlington, VA 22313-1450

Dear Sir:

We, the undersigned, hereby declare:

1. We are the inventors of all claims (i.e., claims 1-37) of the above-identified patent application.
2. Prior to June 1, 2003, we conceived the invention of a phase-shift reflective mask for lithography, and method of using and fabricating. As evidence of such conception, attached is an AMD Invention Disclosure #TLD ID# H1567 describing the invention. All

- 1 -

10/676,923H1567

dates blacked out on the attached copy are prior to June 1, 2003.

3. During the time before June 1, 2003 and the October 1, 2003 filing date of the present application, we worked diligently with our attorneys to finalize and file the present application.

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and such willful false statements may jeopardize the validity of the application or any patent issued therefrom.

Signed: Bruno M. LaFontaine Date: 11/21/2005  
Bruno M. LaFontaine

Signed: Adam R. Pawloski Date: 11/21/2005  
Adam R. Pawloski

Signed: Xunfei Deng Date: 2/21/2006  
Xunfei Deng

#60

147

PRIORITY CODE

A ☒ B ☒  
C ☐ D ☐

JAP

TDG LITHO PATENT HARVESTING

Breakout Session: NGL Lithography

Technical Leader: Harry Levinson

Classroom: C-1 &amp; C-2

## AMD INVENTION DISCLOSURE

TLD ID# H1567

Rec'd date

California &amp; Asia: x44760, return to MS68;

Texas: x55964 return to MS62;

Dresden &amp; Europe: x83401 Silke Kretzschmar at MS E21-PP.

This invention applies to: Project: ☐, Product: ☐, Process: ☐, Technology ☐, Other ☐.

IMPORTANT Please identify any potential use:

List 2 to 5 key search words related to the invention:

Working title of invention: ALTERNATING P&amp;M FOR EUVL

INVENTOR/SESSION PARTICIPANT ADDRESS INFORMATION IS ON THE NEXT PAGE (1A)

Inventor's signature: Bruno La Fontaine date: 1/1Inventor's printed full name: BRUNO LA FONTAINE Citizenship: 1/1

Employee #: \_\_\_\_\_ Extension: \_\_\_\_\_ Mail stop: \_\_\_\_\_ Home telephone( ) \_\_\_\_\_

AMD email address: \_\_\_\_\_ AMD office FAX( ) \_\_\_\_\_

Division: \_\_\_\_\_ Directorate: \_\_\_\_\_ Dept #: \_\_\_\_\_ Dept : \_\_\_\_\_ Manager: \_\_\_\_\_

Residence address: \_\_\_\_\_

Post Office address: \_\_\_\_\_

Co-Inventor's signature: Adam Pawloski date: \_\_\_\_\_

Co-Inventor's printed full name: \_\_\_\_\_ Citizenship: \_\_\_\_\_

Employee #: \_\_\_\_\_ Extension: \_\_\_\_\_ Mail stop: \_\_\_\_\_ Home telephone( ) \_\_\_\_\_

AMD email address: \_\_\_\_\_ AMD office FAX( ) \_\_\_\_\_

Division: \_\_\_\_\_ Directorate: \_\_\_\_\_ Dept #: \_\_\_\_\_ Dept : \_\_\_\_\_ Manager: \_\_\_\_\_

Residence address: \_\_\_\_\_

Post Office address: \_\_\_\_\_

Co-Inventor's signature: \_\_\_\_\_ date: \_\_\_\_\_

Co-Inventor's printed full name: \_\_\_\_\_ Citizenship: \_\_\_\_\_

Employee #: \_\_\_\_\_ Extension: \_\_\_\_\_ Mail stop: \_\_\_\_\_ Home telephone( ) \_\_\_\_\_

AMD email address: \_\_\_\_\_ AMD office FAX( ) \_\_\_\_\_

Division: \_\_\_\_\_ Directorate: \_\_\_\_\_ Dept #: \_\_\_\_\_ Dept : \_\_\_\_\_ Manager: \_\_\_\_\_

Residence address: \_\_\_\_\_

Post Office address: \_\_\_\_\_

Co-Inventor's signature: \_\_\_\_\_ date: \_\_\_\_\_

Co-Inventor's printed full name: \_\_\_\_\_ Citizenship: \_\_\_\_\_

Employee #: \_\_\_\_\_ Extension: \_\_\_\_\_ Mail stop: \_\_\_\_\_ Home telephone( ) \_\_\_\_\_

AMD email address: \_\_\_\_\_ AMD office FAX( ) \_\_\_\_\_

Division: \_\_\_\_\_ Directorate: \_\_\_\_\_ Dept #: \_\_\_\_\_ Dept : \_\_\_\_\_ Manager: \_\_\_\_\_

Residence address: \_\_\_\_\_

Post Office address: \_\_\_\_\_

HARVESTING LAW FIRM/ATTORNEYS: RENNER, OTTO, BOISSELLE &amp; SKLAR

Warren Sklar, Tom Adams

State total number of inventors here: 2. If there are more than four inventors, insert duplicate page 1.Witness 1 initial: LA Witness 2 initial: WAS

For Breakout: NGL Lithography, Revised 06.100901. AMDA CONFIDENTIAL: Attorney-Client Privileged Information Page 1

## TDG Litho Patent Harvesting - [REDACTED]

Breakout Session: NGL Lithography - Classroom: C-1 &amp; C-2

Technical Leader: Harry Levinson

Inventors' Name	Email	Citizenship	EE No.	Dept No.	Mail Stop	Work Telephone & No.	Fax No.	Residence Address	Post Office Address
Abdo, Amr Y.	amr.abdo@amd.com	Egypt	26615	7351	78	408-749-3504	408-774-8813	642 Blythe Ct. #28 Sunnyvale, CA 94085	642 Blythe Ct. #28 Sunnyvale, CA 94085
Amblard, Gilles R.	gilles.amblard@amd.com	France	81228	7197	78	408-749-2533	408-774-8813	5838 Chamberlin Dr. San Jose, CA 95118	5838 Chamberlin Dr. San Jose, CA 95118
LaFontaine, Bruno M.	bruno.lafontaine@amd.com	Canada	25890	7193	78	408-749-2060	408-774-8813	356 Trenton Circle Pleasanton, CA 94566	356 Trenton Circle Pleasanton, CA 94566
Lebedev, Ivan	ivan.lebedev@amd.com	USA	26477	7193	78	408-749-8137	408-774-8813	800 High School Way #421, Mountain View, CA 94041	800 High School Way #421, Mountain View, CA 94041
Levinson, Harry J.	harry.levinson@amd.com	USA	23345	7193	78	408-749-2558	408-774-8813	12508 Radnyka Drive Saratoga, CA 95070	12508 Radnyka Drive Saratoga, CA 95070
Pawloski, Adam R.	adam.pawloski@amd.com	USA	27002	7351	78	408-749-2491	408-774-8813	2721 Buena Vista Ct. San Jose, CA 95121	2721 Buena Vista Ct. San Jose, CA 95121
Schelske, Jeffrey A.	jeffrey.schelske@amd.com	USA	22294	7193	78	408-749-2720	408-774-8813	2598 Sierra Vista Ct. San Jose, CA 95116	2598 Sierra Vista Ct. San Jose, CA 95116
Tabery, Cyrus E.	cyrus.tabery@amd.com	USA	25735	7197	78	408-749-3599	408-774-8813	2250 Monroe #366, Santa Clara, CA 95050	2250 Monroe #366, Santa Clara, CA 95050
Tsai, Frank	frank.tsai@amd.com	Taiwan	26174	7197	78	408-749-2153	408-774-8813	14660 Big Basin Wy #D Saratoga, CA 95070	14660 Big Basin Wy #D Saratoga, CA 95070

BEST AVAILABLE COPY

Advantages (check all that apply):

<input type="checkbox"/> simplifies manufacturing	<input type="checkbox"/> improves accuracy / precision	<input type="checkbox"/> reduces component parts
<input type="checkbox"/> reduces cost of manufacturing	<input type="checkbox"/> improves reliability	<input type="checkbox"/> improves signal to noise ratio
<input type="checkbox"/> improves density	<input type="checkbox"/> improves efficiency	<input type="checkbox"/> provides new functionality
<input type="checkbox"/> increases operating speed	<input type="checkbox"/> increases operating range	<input type="checkbox"/> other, explain below

Discussion of advantage(s) of the invention over other solutions

(emphasize technical advance in the art as measured against known art):

There is no other known solution for EUV alt-P&M mask

Please take special care to preserve documentary evidence of the original date of conception of the invention. AMD Inventors' notebooks with witness signatures are useful in this regard. Notebooks are issued on request to inventors by the local AMD site Technical Librarian.

Please attach copy of first written description(s) of invention, with dates, names of persons with whom the description was discussed.

Please attach copy of first drawing(s) of invention, with date(s).

Describe any external disclosure of invention, place, date, circumstances of disclosure, with copy of NDA.

Does plan exist to publish, disclose or sell? No ☐, Yes ☐, If yes, where and when? \_\_\_\_\_

Was invention jointly developed with participation of inventors from outside AMD: No ☐, Yes ☐.

If yes, Company name \_\_\_\_\_

If yes, name of AMD business contact and development contract no. \_\_\_\_\_

**I have read and understood this disclosure and read and signed each page of the attachments:**

**Witness 1**

signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Printed name: \_\_\_\_\_ Employee #: \_\_\_\_\_

**Witness 2**

signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Printed name: \_\_\_\_\_ Employee #: \_\_\_\_\_